

Technical Information Report for

Convenience Store

Project:

Convenience Store

125 North Morton Street
Franklin, Indiana 46131

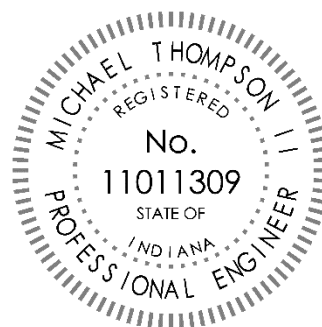
Engineer:

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Professional Certification:

September 14, 2016



Michael Thompson

TABLE OF CONTENTS

1.0	Drainage Narrative:	1
1.1	Introduction	1
1.2	Zoning Status	1
2.0	Water Quantity:	1
3.0	Water Quality:	1
4.0	Summary:	1
5.0	Appendix:	1
A.	Site Maps	i
B.	Existing Conditions	i
C.	Proposed Conditions	1

1.0 Drainage Narrative:

1.1 Introduction

This narrative describes the proposed improvements for the Convenience Store and the impact to the drainage system pre- and post-construction. The project is located at the northeast corner of the Morton Street and Madison Street intersection. The project has a given address of 125 North Morton Street, Franklin, Indiana 46131.

The proposed improvements include the expansion of the current building and canopy, an additional gas pump, and a small reconfiguration of the parking.

1.2 Zoning Status

The site is currently zoned as MXC, Mixed Use Community Center.

2.0 Water Quantity:

The existing site is a fully developed site. The project limits contain green space in landscape islands and around the perimeter of the property. The entire property sheet drains to the east toward the existing storm sewer.

The proposed improvements include the expansion of the current building and canopy, an additional gas pump, and a small reconfiguration of the parking. The proposed grading will perpetuate the same drainage patterns and will drain to the existing storm system.

The Composite "C" values were calculated for the existing and proposed conditions. Due to the limited improvements to the site and amount of impervious area removed, the Composite "C" value for the proposed condition is lower than the Composite "C" value for the existing condition.

Due to the decrease in impervious area, runoff rates will not be impacted, therefore, water quantity improvements are not addressed in this report.

3.0 Water Quality:

Due to the limited land disturbance area, water quality improvements are not addressed in this report.

4.0 Summary:

In summary, this report establishes the proposed project will negligibly impact the water quantity and quality. Due to the existing facilities and proposed improvements no adverse impacts are anticipate.

5.0 Appendix:


A. Site Maps

Soil Map—Johnson County, Indiana



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Johnson County, Indiana
Survey Area Data: Version 23, Sep 9, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 17, 2011—Mar 10, 2012

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Johnson County, Indiana (IN081)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CrA	Crosby silt loam, fine-loamy subsoil, 0 to 2 percent slopes	0.5	100.0%
Totals for Area of Interest		0.5	100.0%

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Indiana State Plane East zone 3828 (FIPSZONE 1301). The horizontal datum was NAD83. Differences in datum, spheroid, projection or state plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov/> or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA/NNGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242 or visit its website at <http://www.ngs.noaa.gov/>.

Base Map information shown on this FIRM was derived from the Johnson County Computer Services from photography dated 2001 and from USGS digital orthophoto quadrangles dated 1998 or later.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

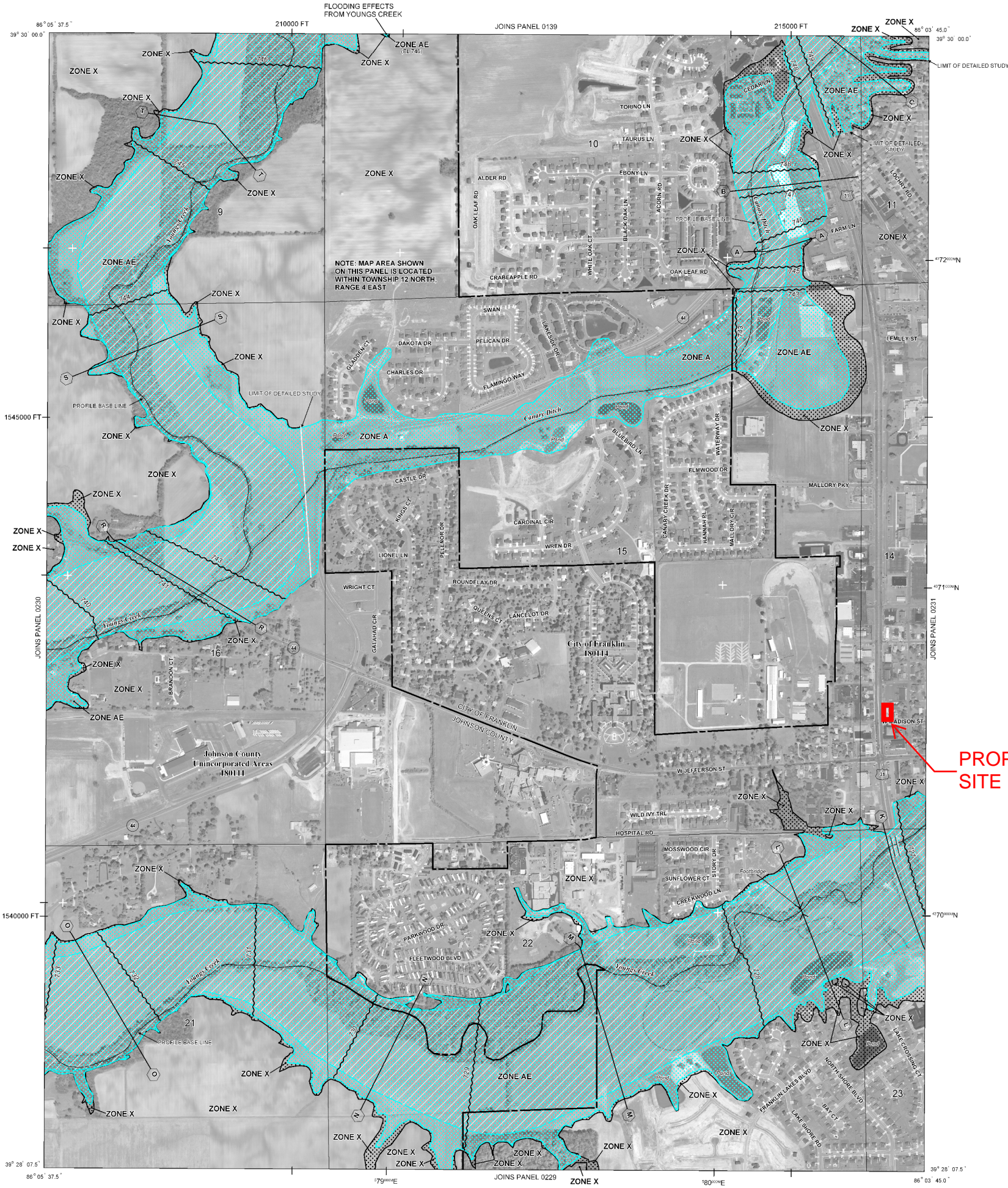
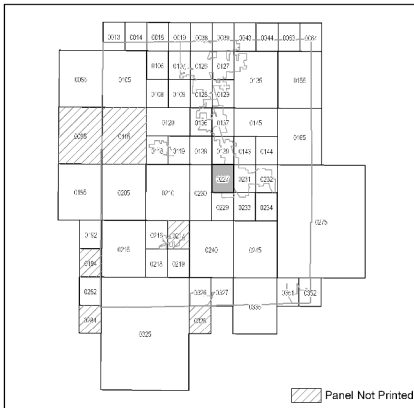
Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels; community map repository addresses; and a listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at <http://msc.fema.gov/>.

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/nfp/>.

The profile base lines depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the profile base line, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

PANEL INDEX



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100 year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard may include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A
No Base Flood Elevations determined.

ZONE AE
Base Flood Elevations determined.

ZONE AH
Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO
Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR
Area of special flood hazard formerly protected from the 1% annual chance flood event by a flood control system that was subsequently determined to be inadequate. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99
Area to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V
Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE
Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE
The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS
ZONE X
Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS
ZONE X
Areas determined to be outside of the 0.2% annual chance floodplain.

ZONE D
Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)
CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary
0.2% annual chance floodplain boundary
Floodway Boundary
Zone D Boundary
CBRS and OPA boundary
Boundary Dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
Base Flood Elevation line and value; elevation in feet*
Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

— A — A — Cross section line
— — — — — Transsect line
85° 03' 45.0" 41° 24' 22.5" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
487,000 M 1000-meter Universal Transverse Mercator grid values, zone 16
2250000 FT 5000-foot grid ticks: Indiana State Plane East Coordinate System, 3828 zone (FIPSZONE 1301) Transverse Mercator
KA0015 X Bench mark (see explanation in Notes to Users section of this FIRM panel)
● M1.5 River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
August 2, 2007

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction. To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-635-9620.

MAP SCALE 1" = 500'
250 500 1000 FEET
150 0 150 300 METERS

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0227D

FIRM
FLOOD INSURANCE RATE MAP
JOHNSON COUNTY, INDIANA
AND INCORPORATED AREAS

PANEL 227 OF 352
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HARSHEN CITY OF	180114	0227	U
JOHNSON COUNTY	180111	0227	D

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
18081C0227D

EFFECTIVE DATE
AUGUST 2, 2007

Federal Emergency Management Agency

B. Existing Conditions

MORTON STREET
VARIABLE RIGHT-OF-WAY

MADISON STREET
40' RIGHT-OF-WAY

VAUGHT STREET
(50' RIGHT OF WAY)

16' ASSUMED ALLEY

BASIN A
8,952 FT²
0.206 ACRES
1,582 FT² PERVIOUS

BASIN B
1,000 FT²

TRUSTEE'S DEED
HOOGLAND GRANDCHILDREN INVESTMENT
LIMITED PARTNERSHIP
INSTRUMENT 2002-021364
(LOTS 5, 6, 7, & 8)

TRUSTEE'S DEED
HOOGLAND GRANDCHILDREN INVESTMENT
LIMITED PARTNERSHIP
INSTRUMENT 2002-021364
(LOTS 5, 6, 7, & 8)

QUIT-CLAIM DEED
LARRY J. BUCK
DEED BOOK 282 PAGE 740
07.10.1995 (LOT 2)

PERSONAL REPRESENTATIVE'S DEED
WILLIAM R. HUGHEY
INSTRUMENT 2005-015659
LAND CONTRACT
JANE HUGHEY
INSTRUMENT 2007-018496
(LOT 1)

WARRANTY DEED
SWIFTY TRANSPORTATION, INC.
INSTRUMENT 1999-028267
(LOT 3 + 1/2 ALLEY)

RIGHT OF WAY GRANT
WHITE TO THE STATE OF INDIANA
0.081944 (LOT 4)

APPROXIMATE LOCATION OF 50' RIGHT OF WAY

UTILITY MARKINGS:
TBM #2 742.61
TBM #1 740.60
K-1 pump
price sign on conc. base
air hose
overhead sign
bushes
concrete
asphalt
grass
concrete walk
brick
concrete

BOUNDARY DIMENSIONS:
N 88°00'00" E 125.80'
S 00°00'00" E 163.00'
N 88°00'00" E 125.80'
S 00°00'00" E 163.00'
N 88°00'00" E 133.80'
S 88°00'00" W 70.90'
N 88°00'00" E 70.90'
S 88°00'00" W 70.90'
N 88°00'00" E 70.90'
S 88°00'00" W 70.90'
N 88°00'00" E 70.90'
S 88°00'00" W 70.90'

SCALE: 1" = 20'

DATE: 2010

	PROPERTY LINE		BENCHMARK
	RIGHT-OF-WAY LINE		MONUMENT
	SETBACK LINE		SECTION CORNER
	EASEMENT		TRANSFORMER HVAC
	SECTION LINE		ELECTRIC METER ELECTRIC MANHOLE
	CENTERLINE		POWER POLE GUY WIRE
	INTERMEDIATE CONTOUR		LIGHT POLE
	INDEX CONTOUR		PARKING LOT LIGHTS
	TELEPHONE UNDER GR.		TELEPHONE PEDESTAL TELEPHONE MANHOLE
	TELEPHONE OVERHEAD		FIBER OPTIC PEDESTAL
	FIBER OPTIC SERVICE		TRAFFIC POLE MANHOLE STOP LIGHT
	GAS SERVICE		GAS METER GAS VALVE
	POWER UNDERGROUND		STORM MANHOLE SANITARY MANHOLE
	POWER OVERHEAD		STORM INLETS
	WATER SERVICE		STORM ENDECTION
	SANITARY SEWER		CLEAN-OUT DOWNSPOUT
	STORM SEWER		FIRE HYDRANTS FIRE VALVE
	POND NORMAL POOL		WATER METER WATER VALVES
	EX. FLOWLINE		POST INDICATOR VALVE FIRE DEPARTMENT CONN.
	CHAIN LINK FENCE		SIGNS
	FARM FENCE		MAILBOX
	WOOD FENCE		ADA PARKING
	IRON FENCE RAILING		PARKING COUNT
	BUILDING STRUCTURE		TREES
	EX. BUILDING OVERHEAD		SHRUB
	RIM ELEVATION		
	INVERT ELEVATION		
	FINISHED FLOOR ELEVATION		

REVISION BLOCK



Michael Thompson

DATE
09/14/2016

DRAWN BY AMT	CHECKED BY MAT
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HAMILTON
DESIGNS

11988 Fishers Crossing Drive, Suite 154
Fishers, Indiana 46038
P. (317) 750-6466
www.hamilton-designs.com

CONSTRUCTION PLANS FOR:

CONSTRUCTION PLANS FOR:
CONVENIENCE MART
125 North Morton Street

Franklin, Indiana 46131

VISION II DESIGN STUDIO, INC.
1364 Colony Park Circle

Greenwood, Indiana 46143

PROJECT NO.
2016-166

DATE
09/14/2016

SCALE
1" = 20'

SHEET NAME

**EXISTING
BASIN MAP**

SHEET NO.

B-1

Hamilton Designs Project No.: 2016-166
 Project Name: Convenience Store By: AMT
 Description: **Composite C Computation** Date 9/14/2016
 Existing Conditions

Rational Method runoff coefficients

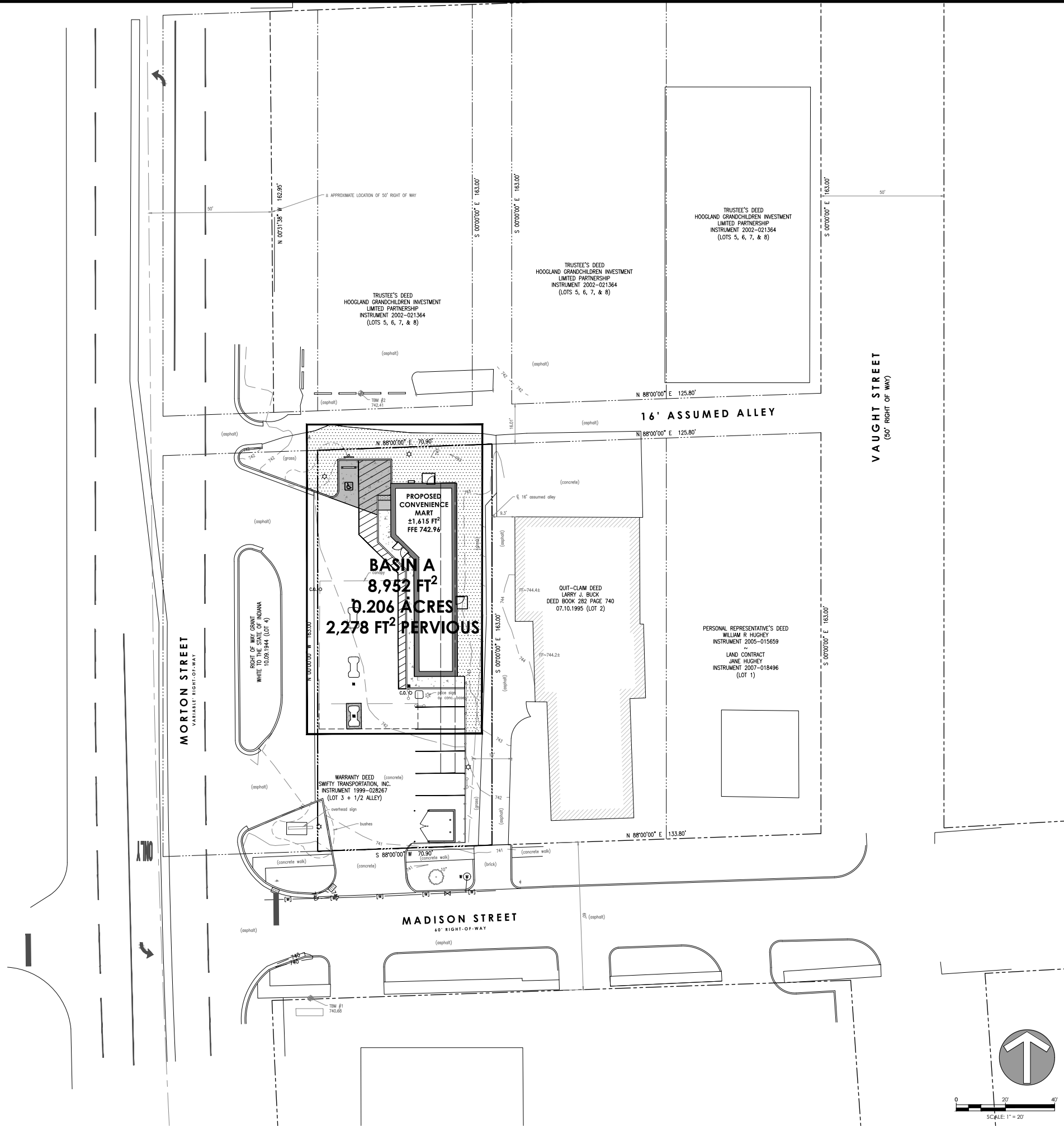
All watertight roof surfaces 0.90
 Pavement 0.90
 Gravel 0.85
 Slightly pervious soil (with turf) 0.20

BASIN A	All watertight surfaces	Pavement	Gravel	Pervious soil / turf	Total	Total	Composite C
	(ft ²)	(ft ²)	(ft ²)	(ft ²)	(ft ²)	(acres)	(ft ²)
	481	6,889	0	1,582	8,952	0.206	0.78

C. Proposed Conditions



Know what's below.
Call before you dig.



LEGEND OF EXISTING FEATURES

PROPERTY LINE	BENCHMARK
RIGHT-OF-WAY LINE	MONUMENT
SETBACK LINE	SECTION CORNER
EASEMENT	TRANSFORMER
SECTION LINE	HVAC
CENTERLINE	ELECTRIC METER
799	ELECTRIC MANHOLE
INTERMEDIATE CONTOUR	POWER POLE GUY WIRE
800	LIGHT POLE
INDEX CONTOUR	PARKING LOT LIGHTS
TELEPHONE UNDER GR.	TELEPHONE PEDESTAL
TELEPHONE OVERHEAD	TELEPHONE MANHOLE
FIBER OPTIC SERVICE	FIBER OPTIC PEDESTAL
GAS SERVICE	TRAFFIC POLE
POWER UNDERGROUND	MANHOLE STOP LIGHT
POWER OVERHEAD	GAS METER
WATER SERVICE	GAS VALVE
SANITARY SEWER	STORM MANHOLE
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EX. FLOWLINE	STORM ENDSECTION
CHAIN LINK FENCE	CLEAN-OUT
FARM FENCE	DOWNSPOUT
WOOD FENCE	FIRE HYDRANTS
IRON FENCE RAILING	FIRE VALVE
BUILDING STRUCTURE	WATER METER
EX. BUILDING OVERHEAD	WATER VALVES
	POST INDICATOR VALVE
	FIRE DEPARTMENT CONN.
	SIGNS
	MAILBOX
	ADA PARKING
	PARKING COUNT
	TREES
	SHRUB
	SPOT GRADE

REVISION BLOCK



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DRAWN BY
AMT

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PROJECT NO.
2016-166

DATE
09/14/2016

SCALE
1" = 20'

SHEET NAME
PROPOSED
BASIN MAP

SHEET NO.

C-1

Hamilton Designs Project No.: 2016-166
 Project Name: Convenience Store By: AMT
 Description: **Composite C Computation** Date 9/14/2016
 Proposed Conditions

Rational Method runoff coefficients

All watertight roof surfaces 0.90
 Pavement 0.90
 Gravel 0.85
 Slightly pervious soil (with turf) 0.20

BASIN A	All watertight surfaces	Pavement	Gravel	Pervious soil / turf	Total	Total	Composite C
	(ft ²)	(ft ²)	(ft ²)	(ft ²)	(ft ²)	(acres)	(ft ²)
	1,615	5,059	0	2,278	8,952	0.206	0.72